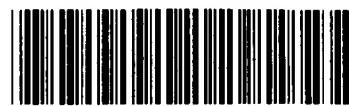


as 70
0927

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RAW SEQUENCE LISTING

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DATE: 09/27/2002

TIME: 13:57:41

Input Set : A:\DX0903K1.ST25.txt
Output Set: N:\CRF4\09272002\I963347B.raw

3 <110> APPLICANT: Bazan, J. Fernando
4 de Waal Malefyt, Rene
5 Liu, Yong-Jun
6 Soumelis, Vassili
8 <120> TITLE OF INVENTION: MAMMALIAN CYTOKINES; RELATED REAGENTS AND METHODS
10 <130> FILE REFERENCE: DX0903K1
12 <140> CURRENT APPLICATION NUMBER: US 09/963,347B
13 <141> CURRENT FILING DATE: 2001-09-25
15 <150> PRIOR APPLICATION NUMBER: US 09/399,492
16 <151> PRIOR FILING DATE: 1999-09-20
18 <150> PRIOR APPLICATION NUMBER: US 60/131,298
19 <151> PRIOR FILING DATE: 1999-04-27
21 <150> PRIOR APPLICATION NUMBER: US 60/101,318
22 <151> PRIOR FILING DATE: 1998-09-21
24 <160> NUMBER OF SEQ ID NOS: 9
26 <170> SOFTWARE: PatentIn version 3.1
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 468
30 <212> TYPE: DNA
31 <213> ORGANISM: Homo sapiens
33 <220> FEATURE:
34 <221> NAME/KEY: CDS
35 <222> LOCATION: (20)..(466)
36 <223> OTHER INFORMATION:
39 <220> FEATURE:
40 <221> NAME/KEY: mat_peptide
41 <222> LOCATION: (119)..()
42 <223> OTHER INFORMATION:
45 <220> FEATURE:
46 <221> NAME/KEY: msc_feature
47 <222> LOCATION: (301)..(301)
48 <223> OTHER INFORMATION: Unknown nucleotide.

58 -20 -17 -13 -10 -7 -4 -1 14

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DATE: 09/27/2002

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Input Set : A:\DX0903K1.ST25.txt

Output Set: N:\CRF4\09272002\I963347B.raw

65	Ile	Lys	Ala	Ala	Tyr	Leu	Ser	Thr	Ile	Ser	Lys	Asp	Leu	Ile	Thr	Tyr	
66																	
	15								20						25		
68	atg	agt	ggg	acc	aaa	agt	acc	gag	ttc	aac	acc	gtc	tct	tgt	agc	244	
69	Met	Ser	Gly	Thr	Lys	Ser	Thr	Glu	Phe	Asn	Asn	Thr	Val	Ser	Cys	Ser	
70															40		
	30								35								
72	aat	cgg	cca	cat	tgc	ctt	act	gaa	atc	cag	agc	cta	acc	ttc	aat	ccc	
73	Asn	Arg	Pro	His	Cys	Leu	Thr	Glu	Ile	Gln	Ser	Leu	Thr	Phe	Asn	Pro	
74															55		
	45								50								
W-->	76	aac	cgc	cgn	gtg	cgg	tgc	ctc	gcc	aaa	gaa	atg	ttc	gcc	atg	aaa	act
77	Asn	Arg	Arg	Val	Arg	Ser	Leu	Ala	Lys	Glu	Met	Phe	Ala	Met	Lys	Thr	340
78									60						70		
									65								
80	aag	gct	gcc	tta	gct	atc	tgg	tgc	cca	ggc	tat	tcg	gaa	act	cag	ata	
81	Lys	Ala	Ala	Leu	Ala	Ile	Trp	Cys	Pro	Gly	Tyr	Ser	Glu	Thr	Gln	Ile	
82	75								80						90		
									85								
84	aat	gct	act	cag	gca	atg	aag	aag	agg	aga	aaa	agg	aaa	gtc	aca	acc	
85	Asn	Ala	Thr	Gln	Ala	Met	Lys	Lys	Arg	Arg	Lys	Arg	Lys	Val	Thr	Thr	
86									95						105		
									100								
88	aat	aaa	tgt	ctg	gaa	caa	gtg	tca	caa	tta	aa					468	
89	Asn	Lys	Cys	Leu	Glu	Gln	Val	Ser	Gln	Leu							
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101										30				25		-20	
104	Val	Ser	Phe	Arg	Lys	Ile	Phe	Ile	Leu	Gln	Leu	Val	Gly	Leu	Val	Leu	
105										15				10		-5	
108	Thr	Tyr	Asp	Phe	Thr	Asn	Cys	Asp	Phe	Glu	Lys	Ile	Lys	Ala	Ala	Tyr	
109	-1	1							5			10			15		
112	Leu	Ser	Thr	Ile	Ser	Lys	Asp	Leu	Ile	Thr	Tyr	Met	Ser	Gly	Thr	Lys	
113									20			25		30			
116	Ser	Thr	Glu	Phe	Asn	Asn	Thr	Val	Ser	Cys	Ser	Asn	Arg	Pro	His	Cys	
117									35			40		45			
120	Leu	Ile	Glu	Ile	Gln	Ser	Leu	Thr	Phe	Asn	Pro	Asn	Arg	Arg	Val	Arg	
121									50			55		60			
124	Ser	Leu	Ala	Lys	Glu	Met	Phe	Ala	Met	Lys	Thr	Lys	Ala	Ala	Leu	Ala	
125									65			70		75			
128	Ile	Ile	Cys	Pro	Gly	Tyr	Ser	Glu	Thr	Gln	Ile	Asn	Ala	Ile	Gln	Ala	
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141 <210> 149

142 <211> LENGTH: 149

143 <212> TYPE: RNA

144 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

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Input Set : A:\DX0903K1.ST25.txt

Output Set: N:\CRF4\09272002\I963347B.raw

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 147 <222> LOCATION: (1)..(477)
 148 <223> OTHER INFORMATION:
 151 <220> FEATURE:
 152 <221> NAME/KEY: mat_peptide
 153 <222> LOCATION: (85)..()
 154 <223> OTHER INFORMATION:
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160 -25 -20 -15	
162 atc ttc atc tta caa ctt gta ggg ctg gtg tta act tac gac ttc act	96
163 Ile Phe Ile Leu Gln Leu Val Gly Leu Val Leu Thr Tyr Asp Phe Thr	
164 -10 -5 -1 1	
166 aac tgt gac ttt gag aag att aaa gca gcc tat ctc agt act att tct	144
167 Asn Cys Asp Phe Glu Lys Ile Lys Ala Ala Tyr Leu Ser Thr Ile Ser	
168 5 10 15 20	
170 aaa qac ctg att aca tat atg agt ggg acc aaa agt acc gag ttc aac	192
171 Lys Asp Leu Ile Thr Tyr Met Ser Gly Thr Lys Ser Thr Glu Phe Asn	
172 25 30 35	
174 aac acc gtc tct tgt agc aat cgg cca cat tgc ctt act gaa atc cag	240
175 Asn Thr Val Ser Cys Ser Asn Arg Pro His Cys Leu Thr Glu Ile Gln	
176 40 45 50	
178 agc cta acc ttc aat ccc acc gcc ggc tgc gcg tcg ctc gcc aaa gaa	288
179 Ser Leu Thr Phe Asn Pro Thr Ala Gly Cys Ala Ser Leu Ala Lys Glu	
180 55 60 65	
182 atg ttc gcc atg aaa act aag gct gcc tta gct atc tgg tgc cca ggc	336
183 Met Phe Ala Met Lys Thr Lys Ala Ala Leu Ala Ile Trp Cys Pro Gly	
184 70 75 80	
186 tat tgc gaa act caq ata aat gct act caq gca atq aaq aaq aqg aqa	384
187 Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln Ala Met Lys Lys Arg Arg	
188 85 90 95 100	
190 aaa aqg aaa qtc aca acc aat aua tgt cta gaa caa qtc tca caa tta	432
191 Lys Arg Lys Val Thr Thr Asn Lys Cys Ile Glu Gln Val Ser Gln Leu	
192 105 110 115	
194 caa gga ttg tgg cgt cgc ttc aat cga cct tta ctg aaa caa cag taa	480
195 Gln Gly Leu Trp Arg Arg Phe Asn Arg Pro Leu Leu Lys Gln Gln	
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199 <210> SEQ_ID_N: 4	
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Input Set : A:\DX0903K1.ST25.txt

Output Set: N:\CRF4\09272002\I963347B.raw

215 5 10 15 20
 218 Lys Asp Leu Ile Thr Tyr Met Ser Gly Thr Lys Ser Thr Glu Phe Asn
 219 25 30 35
 222 Asn Thr Val Ser Cys Ser Asn Arg Pro His Cys Leu Thr Glu Ile Gln
 223 40 45 50
 226 Ser Leu Thr Phe Asn Pro Thr Ala Gly Cys Ala Ser Leu Ala Lys Glu
 227 55 60 65
 230 Met Phe Ala Met Lys Thr Lys Ala Ala Leu Ala Ile Trp Cys Pro Gly
 231 70 75 80
 234 Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln Ala Met Lys Lys Arg Arg
 235 85 90 95 100
 238 Lys Arg Lys Val Thr Thr Asn Lys Cys Leu Glu Gln Val Ser Gln Leu
 239 105 110 115
 242 Gln Gly Leu Trp Arg Arg Phe Asn Arg Pro Leu Leu Lys Gln Gln
 243 120 125 130
 246 <210> SEQ ID NO: 5
 247 <211> LENGTH: 176
 248 <212> TYPE: PRT
 249 <213> ORGANISM: ovine
 251 <400> SEQUENCE: 5
 253 Met Phe His Val Ser Phe Arg Tyr Ile Phe Gly Ile Pro Pro Leu Ile
 254 1 5 10 15
 257 Leu Val Leu Leu Pro Val Ala Ser Ser Asp Cys Asp Phe Ser Gly Lys
 258 20 25 30
 261 Asp Gly Gly Ala Tyr Gln Asn Val Leu Met Val Ser Ile Asp Asp Leu
 262 35 40 45
 265 Asp Asn Met Ile Asn Phe Asp Ser Asn Cys Leu Asn Asn Glu Pro Asn
 266 50 55 60
 269 Phe Phe Lys Lys His Ser Cys Asp Asp Asn Lys Glu Ala Ser Phe Leu
 270 65 70 75 80
 273 Asn Arg Ala Ala Arg Lys Leu Lys Gln Phe Leu Lys Met Asn Ile Ser
 274 85 90 95
 277 Asp Asp Phe Lys Ile His Leu Ser Thr Val Ser Gln Gly Thr Ile Thr
 278 100 105 110
 281 Leu Leu Asn Cys Thr Ser Lys Gly Lys Gly Arg Lys Pro Pro Ser Leu
 282 115 120 125
 285 Gly Glu Ala Gln Pro Thr Lys Asn Leu Glu Glu Asn Lys Ser Leu Lys
 286 130 135 140
 289 Glu Gln Arg Lys Gln Asn Asp Leu Cys Phe Leu Lys Ile Leu Leu Gln
 290 145 150 155 160
 293 Lys Ile Lys Thr Cys Trp Asn Lys Ile Leu Arg Gly Ile Thr Glu His
 175 175

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Input Set : A:\DX0903K1.ST25.txt

Output Set: N:\CRF4\09272002\I963347B.raw

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 309 20 25 30
 312 Asp Gly Gly Ala Tyr Gln Asn Val Leu Met Val Asn Ile Asp Asp Leu
 313 35 40 45
 316 Asp Asn Met Ile Asn Phe Asp Ser Asn Cys Leu Asn Asn Glu Pro Asn
 317 50 55 60
 320 Phe Phe Lys Lys His Ser Cys Asp Asp Asn Lys Glu Ala Ser Phe Leu
 321 65 70 75 80
 324 Asn Arg Ala Ser Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ile Ser
 325 85 90 95
 328 Asp Asp Phe Lys Leu His Leu Ser Thr Val Ser Gln Gly Thr Leu Thr
 329 100 105 110
 332 Leu Leu Asn Cys Thr Ser Lys Gly Lys Gly Arg Lys Pro Pro Ser Leu
 333 115 120 125
 336 Ser Glu Ala Gln Pro Thr Lys Asn Leu Glu Glu Asn Lys Ser Ser Lys
 337 130 135 140
 340 Glu Gln Lys Lys Gln Asn Asp Leu Cys Phe Leu Lys Ile Leu Leu Gln
 341 145 150 155 160
 344 Lys Ile Lys Thr Cys Trp Asn Lys Ile Leu Arg Gly Ile Lys Glu His
 345 165 170 175
 348 <210> SEQ ID NO: 7
 349 <211> LENGTH: 177
 350 <212> TYPE: PRT
 351 <213> ORGANISM: Homo sapiens
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 356 1 5 10 15
 359 Leu Val Leu Leu Pro Val Ala Ser Ser Asp Cys Asp Ile Glu Gly Lys
 360 20 25 30
 363 Asp Gly Lys Gln Tyr Glu Ser Val Leu Met Val Ser Ile Asp Gln Leu
 364 35 40 45
 367 Leu Asp Ser Met Lys Glu Ile Gly Ser Asn Cys Leu Asn Asn Glu Phe
 368 50 55 60
 371 Asn Phe Phe Lys Arg His Ile Cys Asp Ala Asn Lys Gln Gly Met Phe
 372 65 70 75 80
 375 Leu Phe Arg Ala Ala Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ser
 376 85 90 95
 379 Thr Gly Asp Phe Asp Leu His Leu Leu Lys Val Ser Glu Gly Thr Thr
 380 100 105 110
 383 Ile Leu Leu Asn Cys Thr Gly Gln Val Lys Gly Arg Lys Pro Ala Ala
 384 115 120 125

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/963,347B

DATE: 09/27/2002
TIME: 13:57:42

Input Set : A:\DX0903K1.ST25.txt
Output Set: N:\CRF4\09272002\I963347B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 301

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/963,347B

DATE: 09/27/2002

TIME: 13:57:42

Input Set : A:\DX0903K1.ST25.txt

Output Set: N:\CRF4\09272002\I963347B.raw

L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:292